

IN THE CLAIMS

CLAIMS

1. (original) A method of performing an anastomosis, comprising:

juxtaposing two blood vessels to be anastomosed using an juxtaposition device, to a desired configuration in which at least one vessel is an end vessel;

applying an adhesive to said vessels while they are in said configuration, said adhesive being sufficient to ensure both sealing and bonding of said two vessels to each other; and

removing said juxtaposition device after said adhesive sufficiently sets.

2. (canceled)

3. (original) A method according to claim 1, wherein juxtaposing comprises inserting at least a portion of said juxtaposing device into at least one of said vessels.

4. (original) A method according to claim 1, wherein juxtaposing comprises inserting at least a portion of said juxtaposing device into a wall of at least one of said vessels.

5-17. (canceled)

18. (original) A method according to claim 1, wherein applying comprises applying using a plurality of nozzles arranged in a ring.

19. (original) A method according to claim 1, wherein applying comprises applying into a mold adjacent said anastomosis area, which mold shapes the adhesive about said area.

20. (canceled)

21. (original) A method according to claim 1, wherein applying comprises applying a pre-measured amount of adhesive.

22-24. (canceled)

25. (original) A method according to claim 1, wherein said removing comprises removing before said adhesive sets completely.

26. (original) A method according to claim 1, wherein said removing comprises removing as soon as said adhesive starts to set.

27-28. (canceled)

29. (original) A method according to claim 1, wherein no foreign materials other than said adhesive remain in said anastomosis.

30. (original) A method according to claim 1, comprising providing at least one strengthening element in said anastomosis and leaving said at least one strengthening element permanently in said anastomosis.

31. (original) A method of performing an anastomosis, comprising:

attaching at least a first scaffold element to a first blood vessel;

attaching at least said first scaffold element or a second scaffold element to a second blood vessel;

positioning said blood vessels using said at least a first scaffold element, to a desired configuration;

applying an adhesive to said vessels while they are in said configuration, said adhesive being sufficient to ensure both sealing and bonding of said two vessels to each other; and

removing said at least first scaffolding element.

32. (original) A method according to claim 31, wherein said first blood vessel is a side vessel.

33. (original) A method according to claim 31, wherein said first blood vessel is an end vessel.

34. (original) A method according to claim 31, comprising mechanically attaching said at least first scaffolding element to said first blood vessel.

35. (original) A method according to claim 34, wherein mechanically attaching comprises piercing.

36. (original) A method according to claim 34, wherein mechanically attaching comprises hooking.

37-40. (canceled)

41. (original) A method according to claim 31, wherein said at least one scaffolding element comprises a plurality of wires adapted to engage a blood vessel.

42. (canceled)

43. (original) A method according to claim 31, wherein said at least one scaffolding element comprises a balloon.

44-50. (canceled)

51. (original) A method according to claim 31, wherein removing comprises removing at least one of said at least one scaffolding elements before said adhesive sets.

52-76. (canceled)

77. (original) An adhesive anastomotic system, comprising:

a first blood vessel holder;

a second blood vessel holder adapted to interlock with said first blood vessel holder, such that blood vessels held by said two vessel holders contact; and

an adhesive port configured to deliver an adhesive to said contact.

78-81. (canceled)